

Appln. No. 10/748,096
Amendment dated September 13, 2005
Reply to Office Action of June 29, 2005

The listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

- Claim 1. (currently amended) A water-dispersible, freeze-dried bioavailable complex of coenzyme Q-10 and one or more of α -, β - or γ -cyclodextrin, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1.
- Claim 2. (canceled) The complex of claim 1, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1.
- Claim 3. (currently amended) The complex of claim 1 2, wherein said molar ratio ranges from about 1:1 to 2:1.
- Claim 4. (original) The complex of claim 1, wherein said cyclodextrin is one or more of β -cyclodextrin or γ -cyclodextrin.
- Claim 5. (original) The complex of claim 1, which formulated into one or more of a topical preparation, a sublingual formulation, or for oral ingestion.
- Claim 6. (currently amended) A method for making a water-dispersible complex, which comprises the steps of:
- (a) preparing an aqueous slurry of a complex of coenzyme Q-10 and one or more of α -, β - or γ -cyclodextrin by adding coenzyme Q-10 to an aqueous dispersion of one or more of α -, β - or γ -cyclodextrin, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1;
and
 - (b) drying by one or more of spray drying, vacuum-drying, or freeze drying, said aqueous slurry to produce said complex.
- Claim 7. (canceled) The method of claim 6, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1.
- Claim 8. (currently amended) The method of claim 6 7, wherein said molar ratio ranges from about 1:1 to 2:1.

Appln. No. 10/748,096
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Claim 9. (original) The method of claim 6, wherein said cyclodextrin is one or more of β -cyclodextrin or γ -cyclodextrin.

Claim 10. (currently amended) A method for administering to an animal a bioavailable coenzyme Q-10 complex, which comprises the steps of:

- (a) preparing a water-dispersible complex of coenzyme Q-10 and one or more of α -, β - or γ -cyclodextrin by adding coenzyme Q-10 to an aqueous dispersion of one or more of α -, β - or γ -cyclodextrin, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1;
and
- (b) administering said complex to an animal.

Claim 11. (original) The method of claim 10, wherein said animal is a human.

Claim 12. (original) The method of claim 10, wherein said complex is ingested by said animal.

Claim 13. (canceled) The method of claim 10, wherein the molar ratio of cyclodextrin to coenzyme Q-10 ranges from about 0.5:1 to 10:1.

Claim 14. (currently amended) The method of claim 10 ~~43~~, wherein said molar ratio ranges from about 1:1 to 2:1.

Claim 15. (original) The method of claim 10, wherein said cyclodextrin is one or more of β -cyclodextrin or γ -cyclodextrin.

Claim 16. (original) The method of claim 10, wherein said complex is prepared by freeze-drying.

Claim 17 (cancelled).

Claim 18 (cancelled).

Claim 19. (original) The method of claim 10, which formulated into one or more of a topical preparation, a sublingual formulation, or for oral ingestion.

Appln. No. 10/748,096
Amendment dated September 13, 2005
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Claim 20. (original) The method of claim 13, wherein said cyclodextrin is one or more of β -cyclodextrin or γ -cyclodextrin.

Claim 21. (canceled)

Claim 22. (canceled)

Claim 23. (New) A method for making a water-dispersible complex, which comprises the steps of:

- (a) preparing an aqueous slurry of a complex of coenzyme Q-10 and one or more of α -, β - or γ -cyclodextrin by adding coenzyme Q-10 to an aqueous dispersion of one or more of α -, β - or γ -cyclodextrin at room temperature using homogenization followed by storage under refrigeration; and
- (b) drying by one or more of spray drying, vacuum-drying, or freeze drying, said aqueous slurry to produce said complex.

Claim 24. (New) A method for administering to an animal a bioavailable coenzyme Q-10 complex, which comprises the steps of:

- (a) preparing a water-dispersible complex of coenzyme Q-10 and one or more of α -, β - or γ -cyclodextrin by adding coenzyme Q-10 to an aqueous dispersion of one or more of α -, β - or γ -cyclodextrin at room temperature using homogenization followed by storage under refrigeration; and
- (b) administering said complex to an animal.